

WHAT IS CLAIMED IS

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1. A processing apparatus for generating a file, comprising:

a data generating part generating a data part from an original data which is input; and

10 a file generating part generating the file which includes various kinds of data including the data part and a data processing part having as a processing target the data part developed depending on an execute instruction,

15 said file generating part generating the file by including an updating part which updates contents of the file using data modified by the developed data processing part.

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2. The processing apparatus as claimed in claim 1, wherein:

25 said various kinds of data include auxiliary information;

said auxiliary information indicates a position of the data part at a time of an initial display when the data part is initially displayed by the

30 data processing part; and

said data processing part displays the data part from the position indicated by the auxiliary information at the time of the initial display.

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3. A processing apparatus comprising:
a developing part developing various kinds of
data from a file depending on an execute instruction,
said various kinds of data including a data
5 processing part and a data part which is generated
from an original data and is used by the data
processing part; and
an updating part updating contents of the file
using data modified by the developed data processing
10 part.

15 4. The processing apparatus as claimed in
claim 3, wherein:
said various kinds of data include auxiliary
information;
said auxiliary information indicates a position
20 of the data part at a time of an initial display
when the data part is initially displayed by the
data processing part; and
said data processing part displays the data
part from the position indicated by the auxiliary
25 information at the time of the initial display.

30 5. The processing apparatus as claimed in
claim 4, wherein said updating part updates the
auxiliary information to a present display position
of the data part depending on an end instruction.

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6. The processing apparatus as claimed in claim 3, further comprising:

a delete part deleting the developed data processing part and data part at an end of a process.

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7. A computer-readable storage medium
10 which stores a program for causing a computer to generate a file, said program comprising:

data generating means for causing the computer to generate a data part from an original data which is input; and

15 file generating means for causing the computer to generate the file which includes various kinds of data including the data part and a data processing part having as a processing target the data part developed depending on an execute instruction,

20 said file generating means causing the computer to generate the file by including an updating part which updates contents of the file using data modified by the developed data processing part.

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8. The computer-readable storage medium as claimed in claim 7, wherein:

30 said various kinds of data include auxiliary information;

said auxiliary information indicates a position of the data part at a time of an initial display when the data part is initially displayed by the
35 data processing part; and

said data processing part causes the computer to display the data part from the position indicated

by the auxiliary information at the time of the initial display.

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9. A computer-readable storage medium which stores a program for causing a computer to process a file, said program comprising:

10 a developing part causing the computer to develop various kinds of data from a file depending on an execute instruction, said various kinds of data including a data processing part and a data part which is generated from an original data and is

15 used by the data processing part; and

an updating part causing the computer to update contents of the file using data modified by the developed data processing part.

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10. The computer-readable storage medium as claimed in claim 9, wherein:

25 said various kinds of data include auxiliary information;

said auxiliary information indicates a position of the data part at a time of an initial display when the data part is initially displayed by the data processing part; and

30 said data processing part causes the computer to display the data part from the position indicated by the auxiliary information at the time of the initial display.

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11. The computer-readable storage medium
as claimed in claim 10, wherein said updating part
causes the computer to update the auxiliary
information to a present display position of the
5 data part depending on an end instruction.

10 12. The computer-readable storage medium
as claimed in claim 9, said program further
comprising:

a delete part causing the computer to delete
the developed data processing part and data part at
15 an end of a process.

20 13. A computer-readable storage medium
which stores a file, said file comprising:
various kinds of data including a data
processing part and a data part which is generated
from an original data;
25 a data processing part processing the data part
as a processing target;
a developing part developing the data
processing part and the data part; and
an updating part causing the computer to update
30 contents of the file using data modified by the
developed data processing part.

35 14. The computer-readable storage medium
as claimed in claim 13, wherein:

said various kinds of data include auxiliary information;

said auxiliary information indicates a position of the data part at a time of an initial display
5 when the data part is initially displayed by the data processing part; and

said data processing part causes the computer to display the data part from the position indicated by the auxiliary information at the time of the
10 initial display.

15 15. The computer-readable storage medium as claimed in claim 13, said file further comprising:

a delete part deleting the developed data deleting the developed data processing part and data
20 part at an end of a process.

25 16. A processing method for generating a file, comprising the steps of:

(a) generating a data part from an original data which is input; and

(b) generating the file which includes various
30 kinds of data including the data part and a data processing part having as a processing target the data part developed depending on an execute instruction,

said step (b) generating the file by including
35 an updating part which updates contents of the file using data modified by the developed data processing part.

17. The processing method as claimed in claim 16, wherein:

said various kinds of data include auxiliary information;

5 said auxiliary information indicates a position of the data part at a time of an initial display when the data part is initially displayed by the data processing part; and

10 said data processing part displays the data part from the position indicated by the auxiliary information at the time of the initial display.

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18. A processing method comprising the steps of:

(a) developing various kinds of data from a file depending on an execute instruction, said
20 various kinds of data including a data processing part and a data part which is generated from an original data and is used by the data processing part; and

(b) updating contents of the file using data
25 modified by the developed data processing part.

30 19. The processing method as claimed in claim 18, wherein:

said various kinds of data include auxiliary information;

35 said auxiliary information indicates a position of the data part at a time of an initial display when the data part is initially displayed by the data processing part; and

said data processing part displays the data part from the position indicated by the auxiliary information at the time of the initial display.

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20. The processing method as claimed in claim 19, wherein said step (b) updates the auxiliary information to a present display position of the data part depending on an end instruction.

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21. The processing method as claimed in claim 18, further comprising the step of:

(c) deleting the developed data processing part and data part at an end of a process.

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